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(54) Title: WLAN SESSION MANAGEMENT TECHNIQUES WITH SECURE REKEYING AND LOGOFF

(57) Abstract: The invention provides a method for improving the security of a mobile terminal in a WLAN environment by installing two shared secrets instead of one shared secret, the initial session key, on both the wireless user machine and the WLAN access point during the user authentication phase. One of the shared secrets is used as the initial session key and the other is used as a secure seed. Since the initial authentication is secure, these two keys are not known to a would be hacker. Although the initial session key may eventually be cracked by the would be hacker, the secure seed remains secure as it is not used in any insecure communication.

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A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : H04H 1/00; H04L 9/00 US CL : 370/312; 713/172,183 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S. : Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 178 644 A2 (STENMAN et al) 06 February 2002 (06.02.2002), see entire document.	1-23
A	US 6,151,677 A (WALTER et al.) 21 November 2000 (21.11.2000).	1-23
A	US 6,304,658 B1 (KOCHER et al.) 16 October 2001 (16.10.2001).	1-23
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
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